CLASSIFICATION: UNCI	LASSII	FIED										
Exhibit P-40, BUDGET IT	EM JUSTIFIC	ATION							DATE:			
										Februa	ary 2004	
APPROPRIATION/BUDGET ACTIVITY							P-1 ITEM NOME	NCLATURE				
Aircraft Procurement, N	Navy/APN-5 Airo	craft Modificat:	ions						ADVERSA	RY SERIES		
Program Element for Code B Items:							Other Related	l Program Eler	nents			
	Prior	ID									То	
	Years	Code		FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	Total
QTY		A										
COST (In Millions)	48.2	A		8.2	2.6	5.5	5.0	2.6			13.7	85.8

These line items fund modifications to an inventory of 36 F-5E/F Adversary aircraft, and 14 F-16A/B Adversary aircraft. It allows the U.S. Navy to maintain as close a standardized configuration with the Air Force as possible based on need. It also allows the Navy to initiate unique structural or avionics modifications. The overall goal of the modifications budgeted in FY 2005 is to incorporate into the airframe and engines, selected Air Force approved Time-Compliance Technical Orders (TCTO's) to improve safety and reliability. The specific modifications budgeted and programmed are F-5 Structural Repair Program and F-16 A/B Stand-Up.

				(TOA, \$	in Millions)						
OSIP No.	Description	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To <u>Complete</u>	<u>Total</u>
29-81	F-5 STRUCTURAL REPAIR PROGRAM	23.8	6.3	2.6	5.5	5.0	2.6				45.8
13-02	F-16A/B	24.4	1.9							13.7	40.1
Total		48.2	8.2	2.6	5.5	5.0	2.6			13.7	85.8
Note: Tota	Is may not add due to rounding.										

UNCLASSIFIED CLASSIFICATION: DD Form 2454, JUN 86 ITEM NO. 26 PAGE NO. 1

^{*} As per 7100 AIR-10.1.2KD/006 Reprogramming Action Requiring Congressional Prior Approval dated 8 May 2002, a reprogramming action was submitted and approved realigning \$500,000 of FY02 APN-5 funds to APN-4 to establish an F-5 Adversary Aircraft procurement program to procure one-F-5E aircraft from the Government of Switzerland. Additionally, the reprogramming action established an F-5 Adversary Aircraft Modification Engineering Change Proposal within this OSIP used to convert a total of 32 Swiss F-5E aircraft into a Navy approved configuration. The 32 Swiss F-5E aircraft will be procured using the above mentioned APN-4 funding line at a total cost of \$16M.

Classification: UNCLASSIFIED

xhibit P-3a		Individual Modification
ODIFICATION TITLE:	F-5 STRUCTURAL REPAIR PROGRAM	(OSIP 29-81)

MODELS OF SYSTEMS AFFECTED: F-5 ADVERSARY AIRCRAFT TYPE MODIFICATION: SAFETY/RELIABILITY

DESCRIPTION/JUSTIFICATION: The Navy F-5E/F Adversary aircraft inventory, and all applicable funds are for 36 aircraft. USAF updated durability, damage and tolerance analysis, structural inspection, full scale fatigue testing and counting accelerometer data has identified structural fatigue in wings and fuselage areas. The US Navy plans to utilize these aircraft in the Adversary mission through FY2015, and beyond. However, aircraft will be grounded prior to 2015, when maximum fatigue life is reached on major structural components, unless further analysis and replacements are procured and installed. The Navy plans to replace the current high time fuselage with low time Swiss F-5E Fuselages. Also, Wings, as well as, Horizontal Stabilizers, Vertical Stabilizers, Vertical Stabilizers, Vertical Stabilizers, Upper/Lower Cockpit Longerons, and Dorsal Longerons require replacement as they reach their fatigue life limit. Installation of a Structural Data Recorder is planned to ensure accurate recording of flight profile data which can provide up to a 25% increase in usage of these high cost fatigue critical components. Also, repair of other critical safety-of-flight systems such as, Flight Controls and Canopy Latching mechanisms will be accomplished under this program.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: All components and systems required for this program are already qualified, and/or approved for Navy use. No Operational Testing is envisioned under this program.

FINANCIAL PLAN: (TOA, \$ in Millions)

	Prior	Years	FY 2	2003	FY 2	2004	FY 2	2005	FY 2	2006	FY:	2007	FY	2008	FY2	2009	To Co	mplete	To	tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT																				
Installation Kits																				
Various Kits	291	1.2																		
Wings	4	3.9																		
Vertical Stabilizer	21	3.6																		
Vertical Stabilizer Install Kit	10	0.2																		
Cockpit Longeron	8	0.6	5	0.3	5	0.3	9	0.6												
Horizontal Stabilizer	13	1.5																		
Dorsal Longeron	21	1.6																		
SDR Kits	10	0.9																		
Canopy Latch Mod/Refurb Kits	36	0.2																		
Swiss/US Conversion Kit	1	0.1	4	0.2	4	0.2	9	0.4												
Installation Kits N/R		3.4		2.8																
Installation Equipment																				
Installation Equipment N/R																				
Engineering Change Orders																				
Data		1.2																		
Training Equipment																				
Support Equipment																				
ILS		1.9		0.4		0.1		0.7												
Other Support		1.0		0.7		0.3		0.8												
Interim Contractor Support																				
Installation Cost	291	0.4																		
Installation V-Stab	5	0.4	4	0.3	4	0.3	4	0.3												
Installation Dorsal Longeron	12	1.0																		
Installation Cockpit Longeron	6	0.6	4	0.4	4	0.4	9	0.9												
Installation Swiss to US Conversion	1	0.2	4	0.9	4	0.9	9	1.6												
Installation SDR	5	0.2	5	0.2																
Total Procurement		23.8		6.3		2.6		5.5												

Notes:

- 1. Totals may not add due to rounding
- 2. Asterisk indicates amount less than \$50K

						CONCURRENT WITH PPHASE DEPOT MAINTENANCE																
Exhibit P-3a	ı																					
MODELS C	F SYSTEM	IS AFFEC	TED:	F-5 ADVE	ERSARY					-	MOD	IFICATIO	ON TITLE:		VERTI	CAL STAE	BILIZER					
INSTALLAT	TION INFOR	RMATION	:	DEPOT L	EVEL																	
METHOD (OF IMPLEM	ENTATIO	N:											CONCUR	RENT WIT	H PPHASE	DEPOT MA	INTENANC	E			
ADMINISTI	RATIVE LEA	ADTIME:				1	Months	<u>:</u>			PRODU	ICTION L	EADTIME	Ε:			10	Months	_			
CONTRAC	T DATES:			FY 2003:	: <u></u>	Nov-02			_				FY 2004:		N	ov -03	_		FY 2005:		Nov	-03
DELIVERY	DATE:			FY 2003:	:	Jul-03			_				FY 2004:		J	ul-04	_		FY 2005:		Jul-	-05
													(\$ i	n Million	s)							
	Cost:		Prio	r Years	FY	2003	FY	2004	FY	2005	FY	2006	FY	2007	F)	2008	FY	2009	To Co	molete	TOT	ΓΑΙ
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		PERENTATION:																				
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Installation	on Schedule	Э																				
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	& Prior	11	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
In	5		2	2			2	1	1			2	2									
Out			_	+				+				_	_									
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Exhibit P-3a																						
MODELS O	F SYSTEM	IS AFFEC	TED:	F-5 ADVI	ERSARY					=	MOD	IFICATIC	ON TITLE:		COCK	PIT LONG	ERON					
INSTALLAT	ION INFOR	RMATION	l:	DEPOT L	LEVEL																	
METHOD O	F IMPLEM	ENTATIO	N:											CONCU	RRENT wi	th PHASE D	EPOT MAIN	NTENANCE	!			
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CONTRACT	T DATES:			FY 2003	:		Nov -02		_				FY 2004:		Nov -0	3	_	1	FY 2005:		Nov-04	
DELIVERY	DATE:			FY 2003	:		Jul-03		_				FY 2004:		Jul-04		_	1	FY 2005:		Jul-05	
													(\$ i	n Million:	s)							
	Cost:	·	Prin	r Years	FY	2003	FΥ	2004	FY	2005	FY	2006	FY	2007	F\	2008	FY	2009	To Co	mplete	TOT	TAI
1	2301.		Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		-	Qty	\$	Qty	\$	Qty	\$
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FY 2003					2	_	Nov -02 FY 2004: Nov -03 FY 2005: Nov-04 Jul-03 FY 2004: Jul-04 FY 2005: Jul-05 (\$ in Millions) 003 FY 2004 FY 2006 FY 2007 FY 2008 FY 2009 To Complete TOTAL															
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To Com	plete () kits	s							1						1							
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Exhibit P-3a																						
MODELS OF SYSTEMS AFFECTED: F-S ADVERSARY MODIFICATION TITLE: STRUCTURAL DATA RECORDER																						
INSTALLAT	TON INFOR	RMATION	l:	DEPOT L	LEVEL																	
METHOD O)F IMPLEM	ENTATIO	N:											CONCUR	RENT with	PHASE D	EPOT MAIN	NTENANCE				
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Exhib	it P-3a																						
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MODIFICATION INFORMATION: DEPOT LEVEL MODIFICATION TITLE: SMISS TO US CONVERSION																							
МЕТІ	HOD OF	IMPLEM	NPORMATION: DEPOT LEVEL																				
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Classification: UNCLASSIFIED

xhibit P-3a	Individual Modification

MODIFICATION TITLE: F-16A/B STAND-UP (OSIP-13-02)

MODELS OF SYSTEMS AFFECTED: F-16 ADVERSARY AIRCRAFT TYPE MODIFICATION: SAFETY/RELIABILITY

DESCRIPTION/JUSTIFICATION: OSD ordered Air Force and Navy to split 28 F-16's left over from the cancelled Peace Gate Sale to Pakistan. OSIP funding will support the induction of 14 F-16 aircraft into the Adversary fleet at NSAWC, Fallon Nevada. The US Navy plans to utilize these aircraft as a Category-IV Adversary aircraft, simulating the threat of modern high performance fighters. The Navy will operate the 14 F-16's in a training program, providing approximately 300 sorties per aircraft per year. All modifications under this OSIP are to incorporate engine and airframe TCTO's. The Airframe Mod Incorporation will include a Structural Data Recorder.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: OSD directed USN to stand-up 14 F-16 Adversary aircraft at NSAWC. All modifications will install previously qualified systems or equipment. Ten F-16A and four F-16Bs have been alloted to the Navy. No DT or OT is required. IOC occurred October 2002 with FOC in September 2003.

FINANCIAL PLAN: (TOA, \$ in Millions)

	Prio	r Years	FY	2003	FY 2	2004	FY 2	2005	FY 2	2006	FY 2	2007	FY:	2008	FY:	2009	To Co	mplete	To	otal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT																				
Installation Kits																				
Various Kits																				
Airframe Mod Incorporation	14	2.0																		
Engine Update Modication	14	11.1																		
Structural Data Recorder																				
CADS/PADS	14	0.7																		
Installation Kits N/R																				
Installation Equipment																				
Installation Equipment N/R																				
Engineering Change Orders																				
Data		1.0																		
Training Equipment																				
Support Equipment		4.5		0.9																
ILS		1.2		0.6																
Other Support		3.8		0.4																
Interim Contractor Support																			<u> </u>	
Installation Cost												·		·						
Total Procurement		24.4		1.9															1	

Notes:

- 1. Totals may not add due to rounding
- 2. Asterisk indicates amount less than \$50K